

# ***Network Integration Evaluations***

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***Army-Industry Exchange Corner***



# ***NIE14.1 Summary***



- **Network Insights**

- Network Management & Complexity – the network is too complicated
- Air-Ground Integration - connecting dismounted forces to aviation assets within the network is challenging
- Dismounted Force Connectivity - when out of range from gateway node, dismounted force is isolated from higher/adjacent units' network

- **Other Insights**

- Mission Command Complexity & Compatibility – MC systems are not integrated with mobile solutions; MC system interoperability is unreliable and difficult – lack of horizontal and vertical integration
- Command Posts - Main CPs are not expeditionary (scalable, agile, efficient, portable); BN/BDE CDRs expressed need for MCOTM TAC CPs
- JIIM - Joint Force integration is limited; Multinational / Interagency face considerable interoperability challenges
- Training - Leverage the NIE operational environment for division training; Modernization and unit readiness are not mutually exclusive



# NIE/Bold Quest 14.2 Concept



## NIE Key Objectives

- Assess the network's ability to provide timely situational awareness, while conducting Joint Force entry operations.
- Accelerate integration of MC on the move into Aviation and Armored Platforms
- Simplify and protect the Network
- Evaluate solutions to enhance the command post
- Improve Home Station capabilities
- Opportunities to leverage:
  - JIIM Interoperability
  - Training Opportunities- DIV HQ
  - Joint Training Experiences

## Network Integration Evaluation

## Interoperability & Integration Opportunities

## Bold Quest

## Joint Training Exercise

## BQ Key Objectives

- Joint/Coalition Fires
- Digitally Aided Close Air Spt
- Friendly Force Tracking
- Combat ID Server
- Joint Fire C2 Interoperability
- Assess Joint Mission Threads to identify gaps:
  - Joint Fires
  - Integrated Air Picture

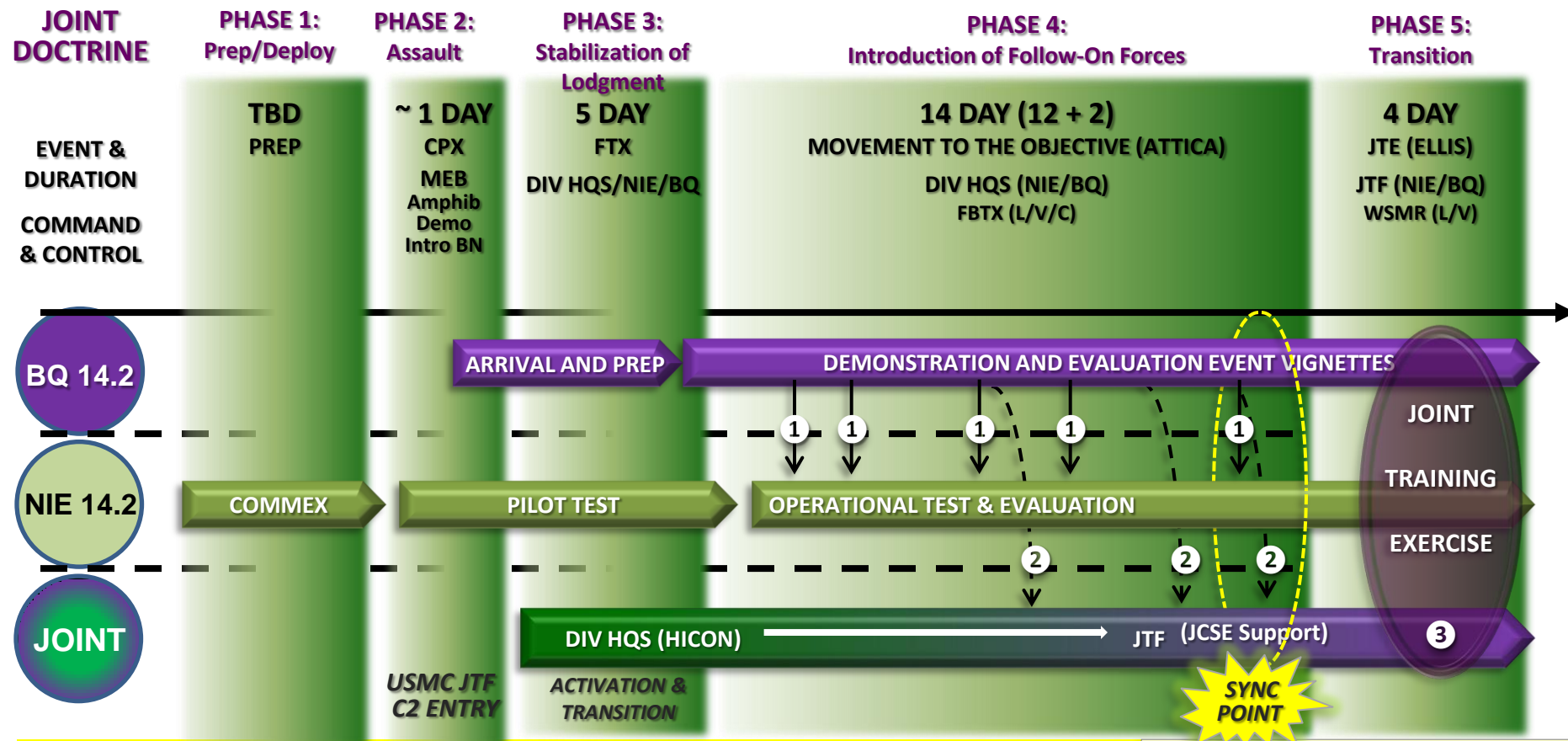
## JTE Key Objectives

- Train 1<sup>st</sup> AD to perform as JTF (working w/ARCENT)
- Assess overall joint/multi-national interoperability issues
- Train JTF on Mission Partner Environment

***NIE/Bold Quest Teaming offers opportunities to integrate Joint Network capabilities while efficiently providing a significant Joint Training opportunity.***



# BQ / NIE / JTE 14.2 Event Flow



- ① 'Touch Points' are where BQ Vignettes can interact with NIE
- ② BQ Vignettes may support JTF transition and preparatory activities
- ③ JTF Exercise will incorporate NIE events and BQ Vignettes (focus Joint OBJ)

## Proposed JOINT MISSION THREADS:

- Joint Fires
- Joint Integrated Air Picture
- Joint Personnel Recovery
- Joint C2/Mission Command



# ***Improving our relationship with Industry***



- **Industry Feedback Day at the end of NIEs**
- **Active engagements with industry partners**
- **Better follow-through and involvement on potential capabilities**



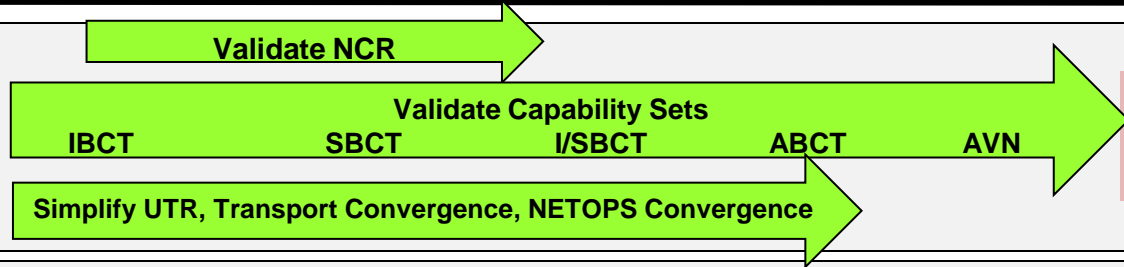
# Enabling an Expeditionary Army – a 5-year DOTMLPF Roadmap for Effective Integration

5 Year End-state: Enabling the expeditionary Army for decisive action in 2025 and beyond

Lines of Effort

2014      2015      2016      2017      2018...

Validate Network Baseline



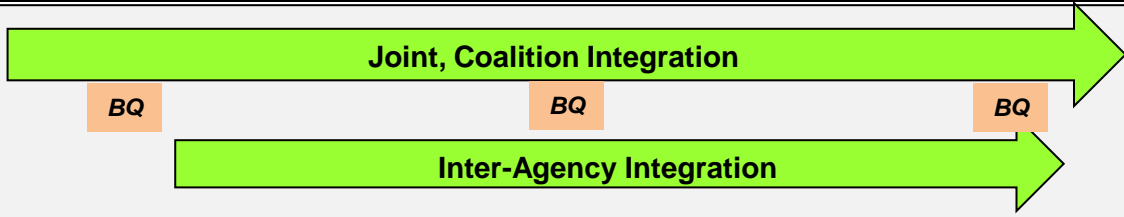
- ✓ Integrated and protected network in all formations to support decisive action
- ✓ CS validated in NIE before fielding
- ✓ Converge all networks to WIN-T

Mission Command



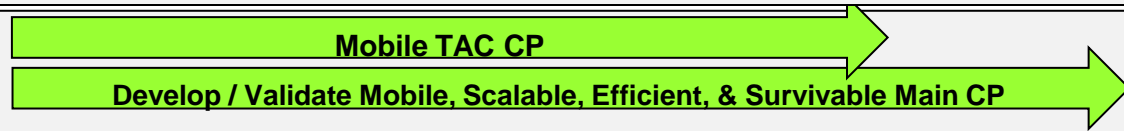
- ✓ Single COE across the Army
- ✓ CP CE and Mobile CE validated
- ✓ Standardized Mobile CE & CP CE interface
- ✓ Mobile apps interoperable w/ CP apps
- ✓ Defined requirements for cloud capabilities at BN & BCT levels

Inter-Operability



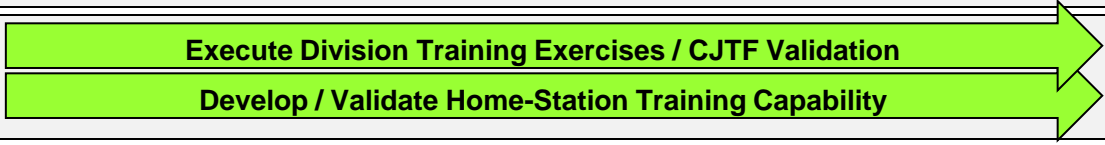
- ✓ Robust suite of capabilities including cross domain solutions
- ✓ Seamless integration within Joint/SOF
- ✓ Proven doctrine, refined TTP, mature equipment

Command Posts



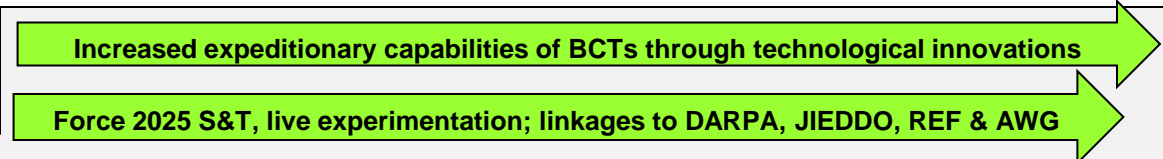
- ✓ Mobile, scalable CPs with efficient energy

Training



- ✓ Validated Division JTEs
- ✓ Developed & implemented Home-station Capability Set (CS) training

Accelerated & Innovative Capabilities



- ✓ Drives change in the Army; BCT reduced footprint underway
- ✓ Accelerated capabilities to support regional missions



# Transition to Force 2025 Maneuvers



**Force 2025 objectives – leaner, more deployable, lethal, and agile Army forces to prevent, shape, and win**

27 Feb 2014  
Stakeholder  
Conference

4-5 Mar 2014  
Army Four-  
Star Forum



**NIE Objectives**

**Ramp-Up**

**Force 2025  
Maneuvers**

NIE 14.1

NIE 14.2

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

**FY2014**

**FY2015**

**Continue to meet current contractual and legal NIE obligations**

- **Interoperability with Unified Action and Coalition Partners**
- **Force Entry Mission Command (Ground)**
- **Fires Net-Centric Messaging Requirements**
- **Condition Based Maintenance**
- **Air Ground Network Architecture**

- **Operational Energy - Onboard Exportable Power**
- **Adaptive Exchange of Data Among NetOps Mgmt Systems**
- **Electromagnetic Spectrum Operations**
- **Extend WIN-T Infrastructure to Support Disadvantaged Users**
- **BDE/BN Command Post Mobility and Scalability**
- **Integrated Network Access Control**